

US EPA ARCHIVE DOCUMENT



U.S. ENVIRONMENTAL PROTECTION AGENCY

Air Sampling Report

Location Name/ID	GI07
City, State	Golden Meadow, Louisiana
Latitude	29.15252
Longitude	-90.18059

SCREENING LEVELS FOR ONE YEAR AVERAGE EXPOSURE TO VOLATILE ORGANIC COMPOUNDS (VOCs) COMMONLY FOUND IN CRUDE OIL		
Contaminant concentration, 1-year average. Measured in micrograms/cubic meter (µg/m3)	Health Concern?	Action
Benzene: 20 µg/m3 and below Toluene: 5000 µg/m3 and below Ethylbenzene: 3000 µg/m3 and below Xylene: 3000 µg/m3 and below	Low concern for increased risk of health problems for measurements in this range.	Public: No action suggested. EPA will continue to evaluate sample results.
Benzene: Above 20 µg/m3 Toluene: Above 5000 µg/m3 Ethylbenzene: Above 3000 µg/m3 Xylene: Above 3000 µg/m3	Level of health concern depends on how much above these levels the measurement is and for how long. Concentrations slightly above these levels for short durations do not generally pose health concerns. There may be some health concern if people are exposed to these levels continuously for a year or more.	Public: No immediate action suggested. EPA will continue to monitor the levels closely. Additional investigation may be needed, e.g., reviewing information about the detected chemical, and where the higher concentrations may be coming from. Additional monitoring may be needed.
If air pollution reaches levels requiring immediate action, you will be notified via local news media.		

Volatile Organic Compounds Chemical Results in µg/m3

DATE RANGE	BENZENE	ETHYLBENZENE	O-XYLENE	TOLUENE
07/01/2010	.66	.89	.89	.78
06/30/2010	.68	.92	.92	.8
06/29/2010	.52	.71	.71	.62
06/28/2010	.61	.83	.83	.72
06/27/2010	.64	.87	.87	.76
06/26/2010	.83	1.1	1.1	.98
06/25/2010	.51	.7	.7	.61
06/24/2010	23	6.4	1.9	11

DATE RANGE	BENZENE	ETHYLBENZENE	O-XYLENE	TOLUENE
06/23/2010	2	2.7	2.7	2.4
06/21/2010	.71	.96	.96	.83
06/20/2010	1.4	1.8	1.8	1.6
06/19/2010	.99	1.3	1.3	1.5
06/18/2010	.565	1.3	1.55	.845
06/17/2010	.61	.82	.82	.72
06/16/2010	.58	.79	.79	.69
06/14/2010	.525	.71	.71	.87
06/13/2010	.57	.775	.775	.675
06/12/2010	.57	.78	.78	.67
06/11/2010	.58	.79	.79	.69
06/10/2010	.61	.83	.83	.72
06/09/2010	.57	.78	.78	.67
06/08/2010	.58	.79	.79	.86
06/07/2010	.59	.8	.8	.72
06/06/2010	.62	.85	.85	.73



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Semi Volatile Organic Compounds
Chemical Results in µg/m3

DATE RANGE	BENZO(B)FLUORANTHENE	BENZO(A)PYRENE	BENZO(K)FLUORANTHENE	BENZ(A)ANTHRACENE	CHRYSENE	DIBENZ(A,H)ANTHRACENE	INDENO(1,2,3-CD)PYRENE	NAPHTHALENE
07/01/2010	.04	.04	.04	.04	.04	.04	.04	.0031
06/30/2010	.036	.036	.036	.036	.036	.036	.036	.0036
06/29/2010	.038	.038	.038	.038	.038	.038	.038	.0057
06/28/2010	.04	.04	.04	.04	.04	.04	.04	.016
06/27/2010	.043	.043	.043	.043	.043	.043	.043	.0045
06/26/2010	.04	.04	.04	.04	.04	.04	.04	.008
06/25/2010	.071	.071	.071	.071	.071	.071	.071	.42
06/24/2010	.042	.042	.042	.042	.042	.042	.042	.015



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SCREENING LEVELS FOR ONE-YEAR AVERAGE EXPOSURE TO POLYCYCLIC AROMATIC COMPOUNDS (PAHS) COMMONLY FOUND IN CRUDE OIL		
Contaminant concentration, 1-year average. Measured in micrograms /cubic meter (µg/m3)	Health Concern?	Action
Benzene: 20 µg/m3 and below Benzo(a)pyrene: .64 µg/m3 and below ** Benzo(a)anthracene: 6.4 µg/m3 and below Benzo(b) fluoranthene: 6.4 µg/m3 and below Benzo(k) fluoranthene: 6.4 µg/m3 and below Chrysene: 64 µg/m3 and below Dibenz(a,h) anthracene: .58 µg/m3 and below Indeno(1,2,3-c,d) pyrene: 6.4 µg/m3 and below Naphthalene: 30 µg/m3 and below	Low concern for increased risk of health problems for measurements in this range.	Public: No action suggested. EPA will continue to evaluate sample results.
Benzene: Above 20 µg/m3 Benzo(a)pyrene: Above .64 µg/m3 ** Benzo(a)anthracene: Above 6.4 µg/m3 Benzo(b) fluoranthene: Above 6.4 µg/m3 Benzo(k) fluoranthene: Above 6.4 µg/m3 Chrysene: Above 64 µg/m3 Dibenz(a,h) anthracene: Above .58 µg/m3 Indeno(1,2,3-c,d) pyrene: Above 6.4 µg/m3 Naphthalene: Above 30 µg/m3	Level of health concern depends on how much above these levels the measurement is and for how long. Concentrations slightly above these levels for short durations do not generally pose health concerns. There may be some health concern if people are exposed to these levels continuously for a year or more.	Public: No immediate action suggested. EPA will continue to monitor the levels closely. Additional investigation may be needed, e.g., reviewing information about the detected chemical, and where the higher concentrations may be coming from. Additional monitoring may be needed.
If air pollution reaches levels requiring immediate action, you will be notified via local news media.		

Polycyclic Aromatic Hydrocarbons
Chemical Results in µg/m3

DATE RANGE	BENZO(B)FLUORANTHENE	BENZO(A)PYRENE	BENZO(K)FLUORANTHENE	BENZO(A)ANTHRACENE	CHRYSENE	DIBENZ(A,H)ANTHRACENE	INDENO(1,2,3-CD)PYRENE	NAPHTHALENE
07/01/2010	.04	.04	.04	.04	.04	.04	.04	.0031
06/30/2010	.036	.036	.036	.036	.036	.036	.036	.0036
06/29/2010	.038	.038	.038	.038	.038	.038	.038	.0057
06/28/2010	.04	.04	.04	.04	.04	.04	.04	.016
06/27/2010	.043	.043	.043	.043	.043	.043	.043	.0045
06/26/2010	.04	.04	.04	.04	.04	.04	.04	.008

DATE RANGE	BENZO(B)FLUORANTHENE	BENZO(A)PYRENE	BENZO(K)FLUORANTHENE	BENZO(A)ANTHRACENE	CHRYSENE	DIBENZO(A,H)ANTHRACENE	INDENO(1,2,3-CD)PYRENE	NAPHTHALENE
06/25/2010	.071	.071	.071	.071	.071	.071	.071	.42
06/24/2010	.042	.042	.042	.042	.042	.042	.042	.015



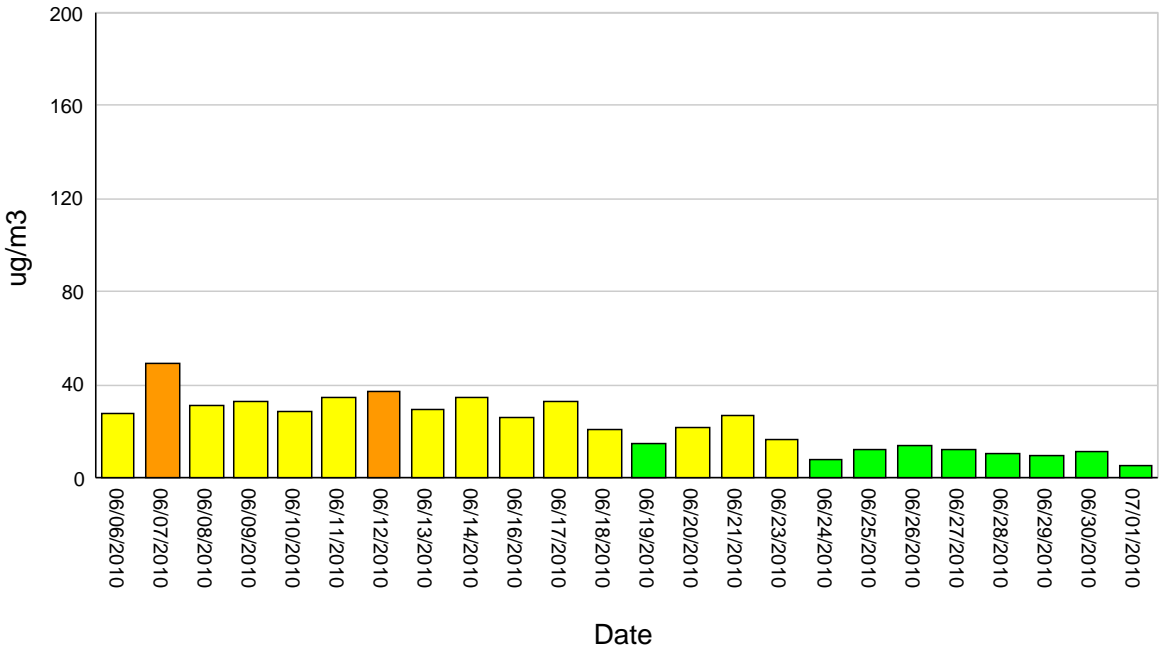
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Localized Monitoring PM2.5 Daily Averages	Index Value	Air Quality Index Levels of Health Concern	Cautionary Statements
0-15.4	0 to 50	Good	None
15.5-35.4	51 to 100	Moderate	Unusually sensitive people should consider reducing prolonged or heavy exertion.
35.5-65.4	101 to 150	Unhealthy for Sensitive Groups	People with heart or lung disease, older adults, and children should reduce prolonged or heavy exertion.
65.5-150.4	151 to 200	Unhealthy	People with heart or lung disease, older adults, and children should avoid prolonged or heavy exertion. Everyone else should reduce prolonged or heavy exertion.
150.5-250.4	201 to 300	Very Unhealthy	People with heart or lung disease, older adults, and children should avoid all physical activity outdoors. Everyone else should avoid prolonged or heavy exertion.
250.5-500.4	301 to 500	Hazardous	People with heart or lung disease, older adults, and children should remain indoors and keep activity levels low. Everyone else should avoid all physical activity outdoors.

Particulates Chemical Results in µg/m3

DATE RANGE	Particulate Matter 2.5 microns
07/01/2010	5.33
06/30/2010	11.52
06/29/2010	9.13
06/28/2010	10.5352
06/27/2010	12.427
06/26/2010	13.5364



DATE RANGE	Particulate Matter 2.5 microns
06/25/2010	12.4095
06/24/2010	7.47
06/23/2010	16.1221
06/21/2010	26.4038
06/20/2010	21.4748
06/19/2010	14.5886
06/18/2010	20.8276
06/17/2010	33.09137489
06/16/2010	25.6453
06/14/2010	34.3249
06/13/2010	29.52
06/12/2010	36.9
06/11/2010	34.18
06/10/2010	28.69
06/09/2010	33.04
06/08/2010	30.77
06/07/2010	48.9
06/06/2010	27.59

